Electronic Supplementary Information

Figure S1. Distribution diagrams of the complexes formed as a function of pH in the system Co(II)-L1. a) $[Co(II)] = [L1] = 1 \times 10^{-3}$ M; b) $[L1] = 1 \times 10^{-3}$ M, $[Co(II)] = 2[L1]$.

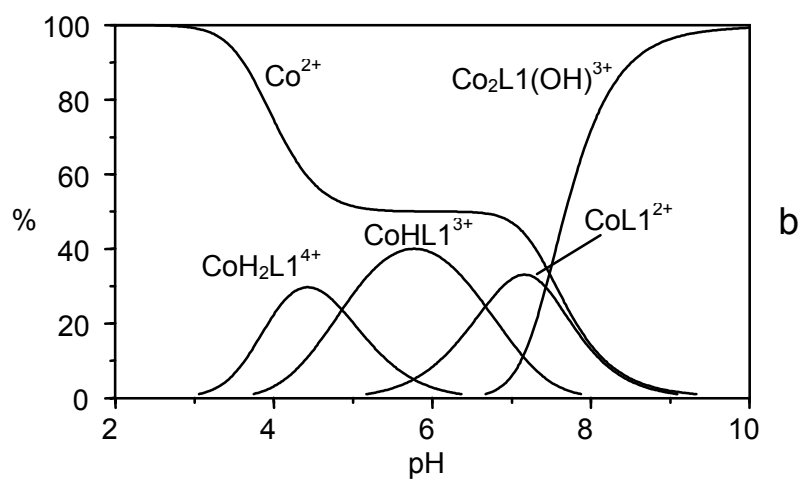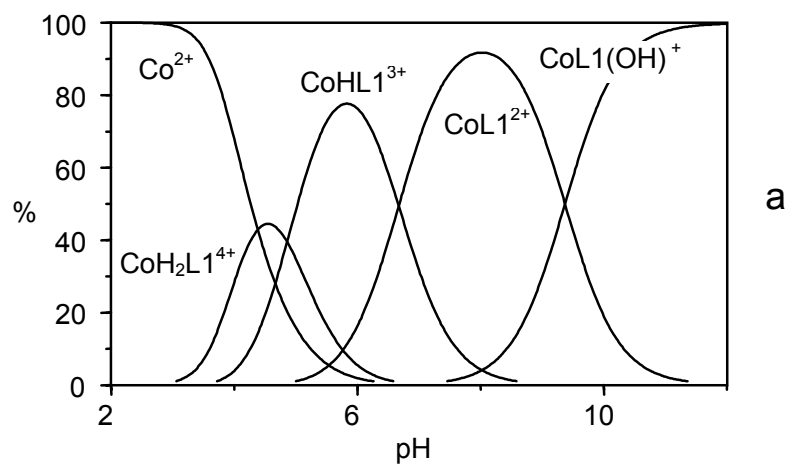Figure S2. Distribution diagrams of the complexes formed as a function of pH in the system Co(II)-L2. $[Co(II)] = [L1] = 1 \times 10^{-3}$ M.
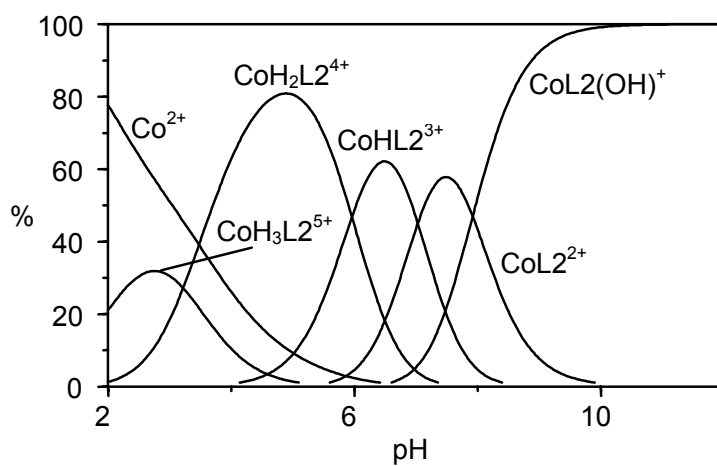
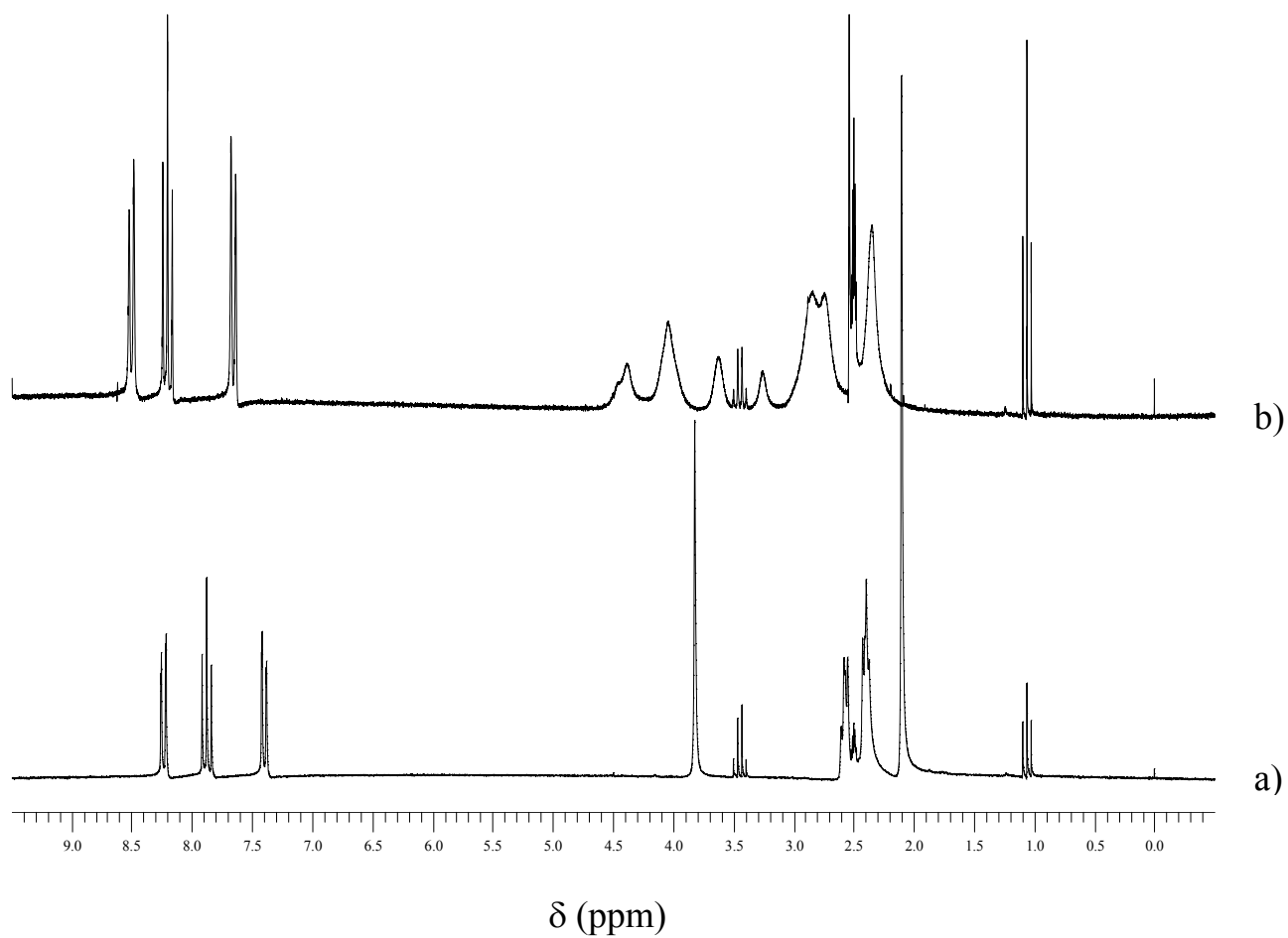Figure S3. ^{1}H-NMR spectra of a) free ligand L1 and b) [CdL1]$^{2+}$ complex in DMSO-d_6.

δ (ppm)

Figure S4. ^{1}H-NMR spectra of a) free ligand L2 and b) [CdL2]$^{2+}$ complex in DMSO-d_6.

δ (ppm)